

SINGLE BALANCED MIXER

Abstract of the Disclosure

5 A single balanced mixer has a high degree of isolation
between an IF signal and an RF signal and a high conversion
efficiency. The single balanced mixer includes means for
producing two local signals of same amplitude and opposite
phase, a pair of mixing elements each receiving a
corresponding one of the two local signals, a pair of strip
lines for transmitting the input RF signal to the mixing
10 elements. One end of each of the strip lines is connected to
one another at a point where the RF signal is supplied and
other end of each of the strip lines is connected to the
corresponding mixing element. A length of each of the strip
lines is one fourth of a wave length of the IF signal.

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